

Some Photography and Camera Basics

- Introduction to a camera
- Grain Size/Pixel Size
- ISO
- F-Stop
- Depth of Field
- Lens Length
- Lighting/White Balance



Some Photography and Camera Basics

But also

- Basic lighting/back lighting
- Focusing
- Basic composition







Scene selection Shooting Suited for the Scene (Scene Mode) Camera settings are automatically optimized for the selected scene type. The following scene modes are available. **2** Portrait Beach/snow Close-up 🖺 Backlight ■ Landscape Sunset **II** Food □ Panorama assist □ ■ Night portrait XX Party/indoor □ Сору Selecting a Scene Mode 1 Press in shooting mode to display the shooting-mode SCENE More on Shooting 2 selection menu and use the multi ゼ selector ▲ and ▼ to select scene mode. • The icon of the last scene mode used is

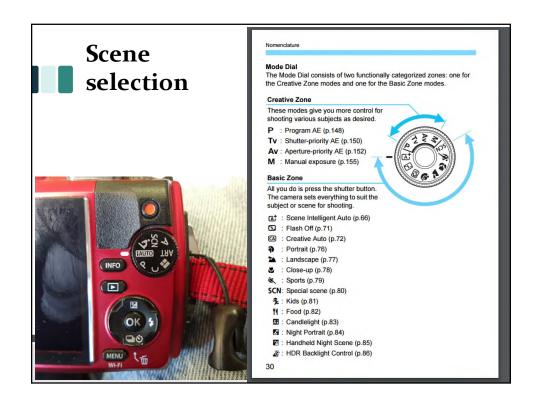


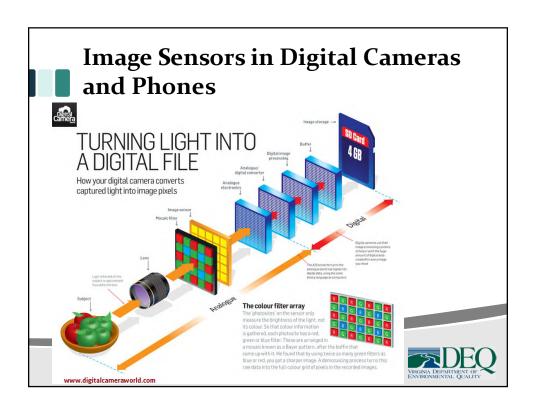


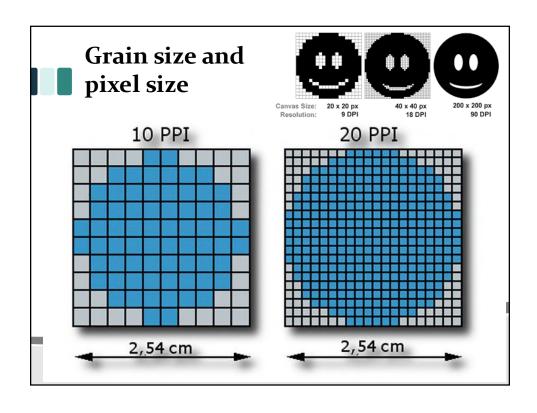


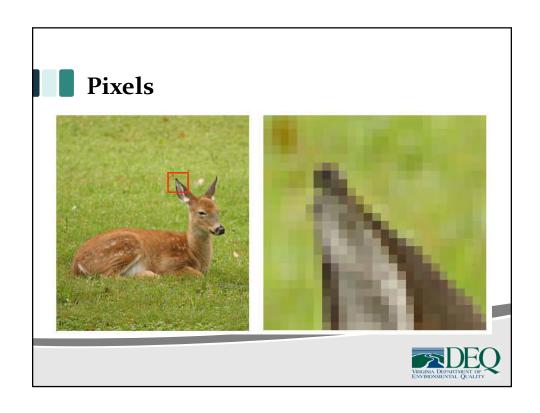


Image Sensors in Digital Cameras and Phones

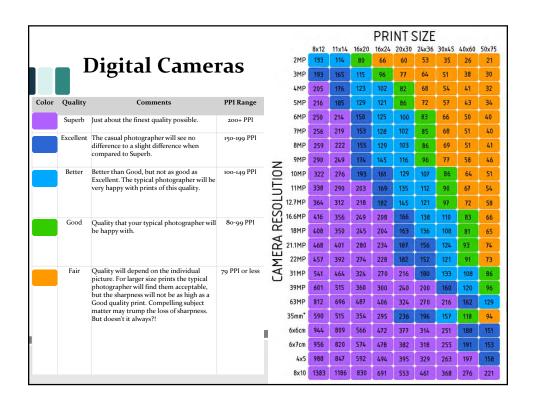


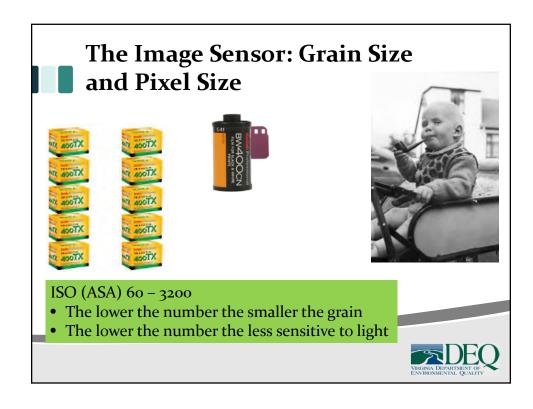




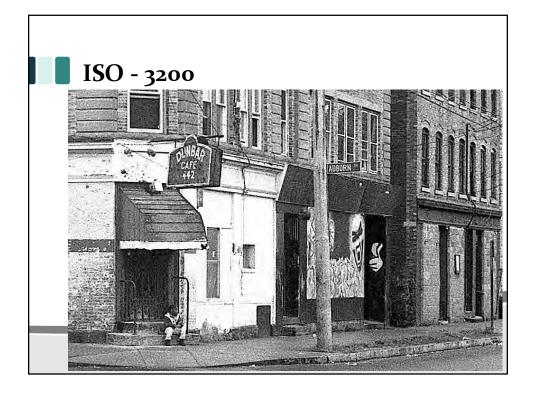












Grain size

The bigger the grain

~

The more light it could harvest

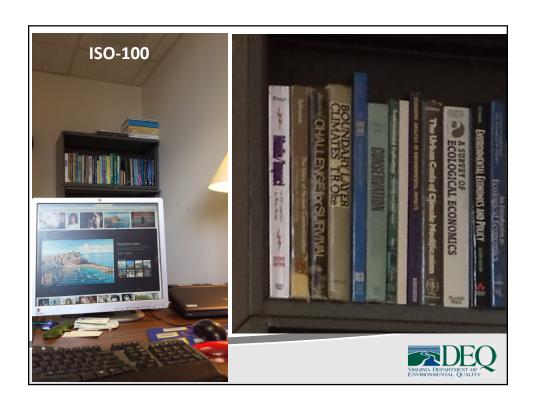
But less sharpness/precision!

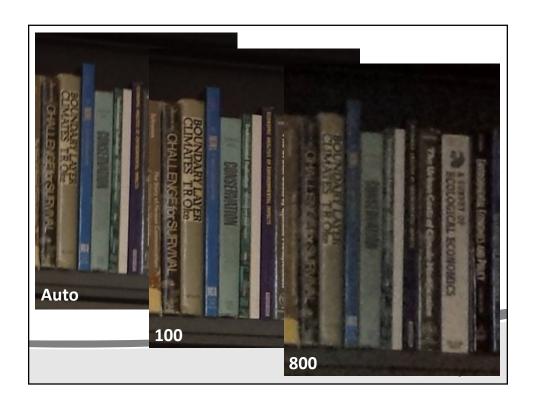


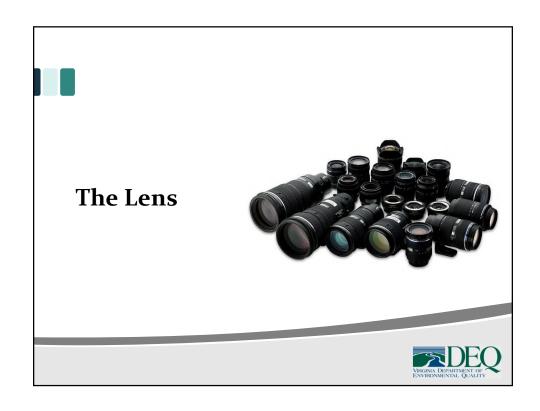


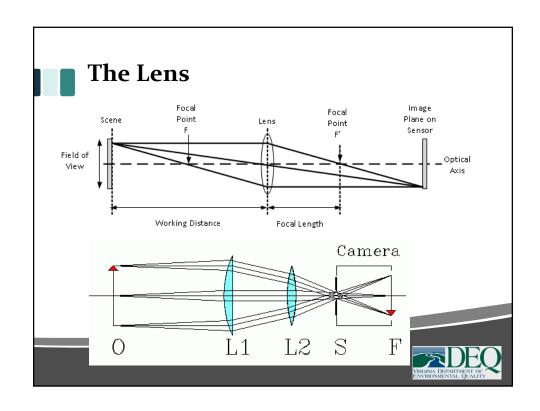


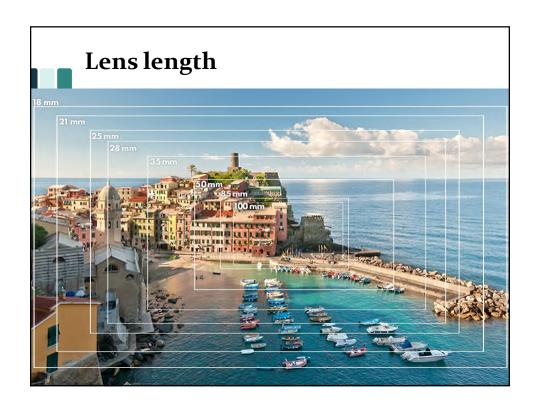


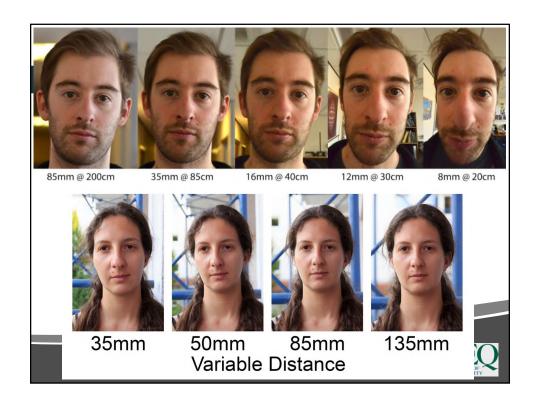


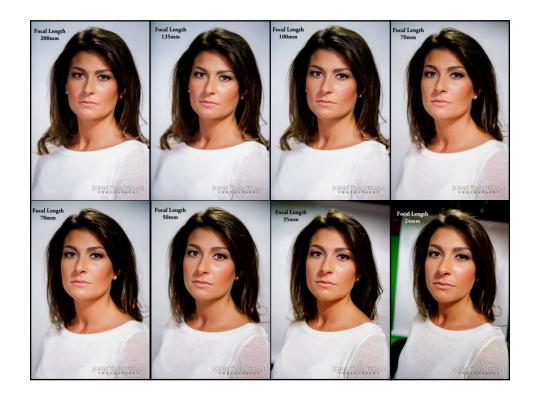


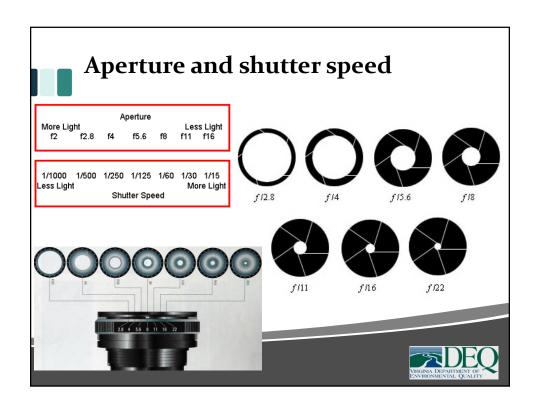


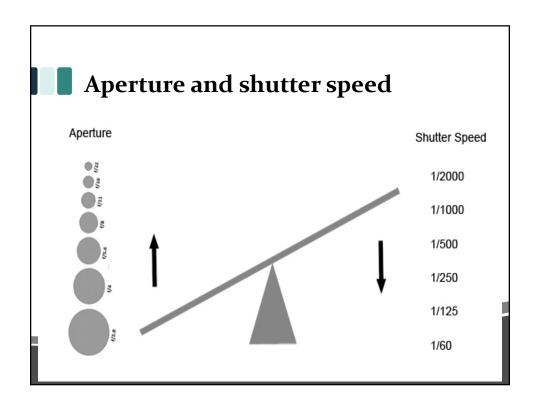


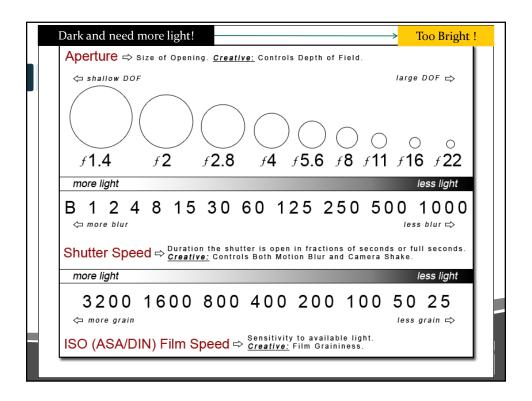


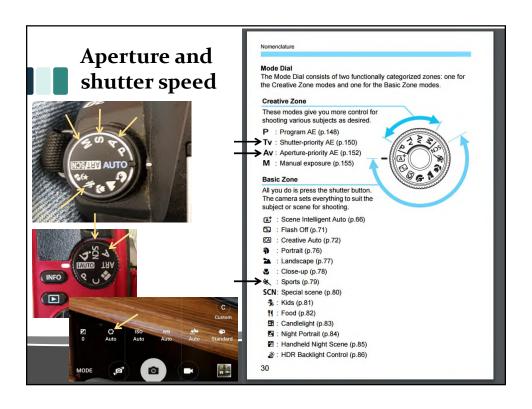


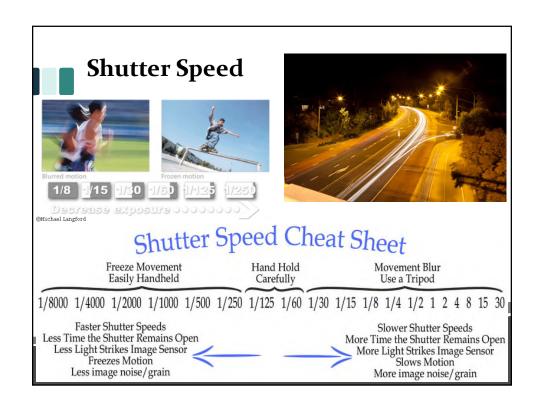


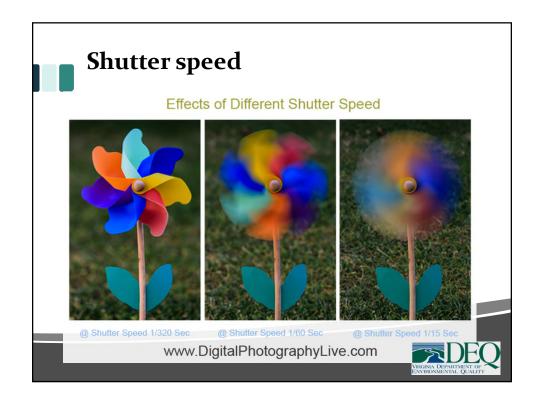


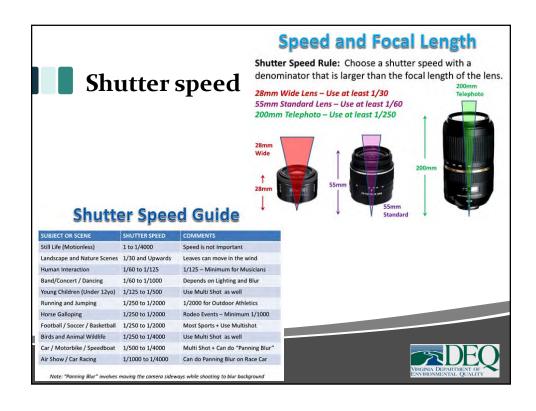


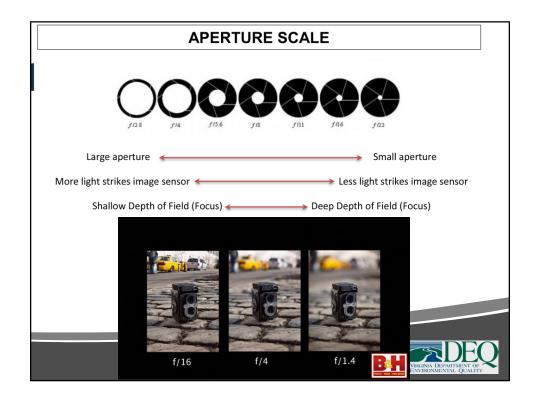


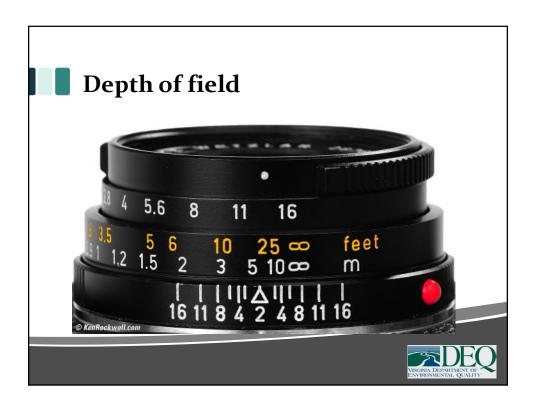




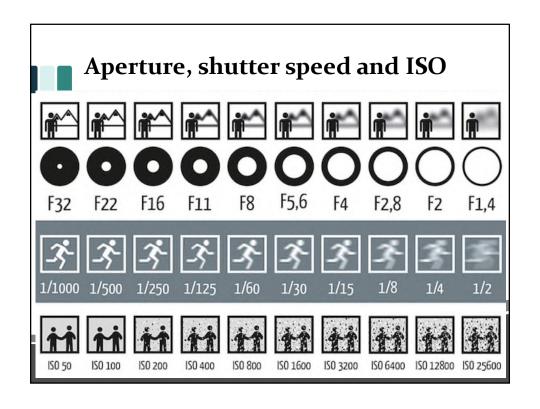


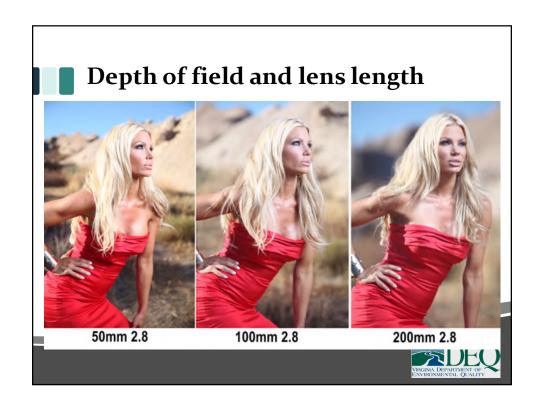












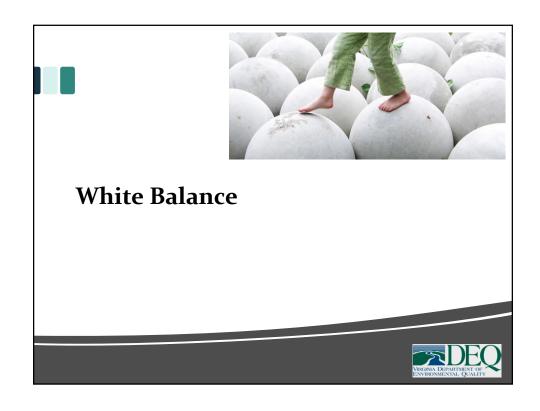


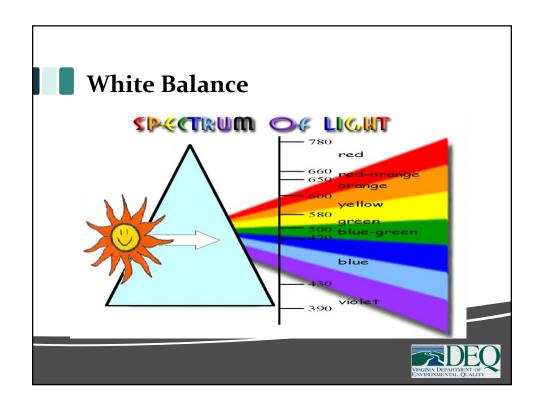


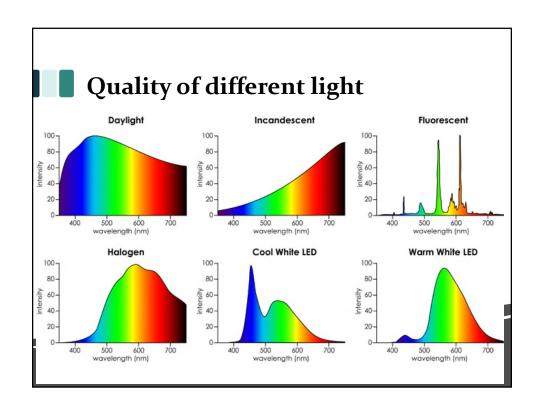
Where do you focus with a camera?

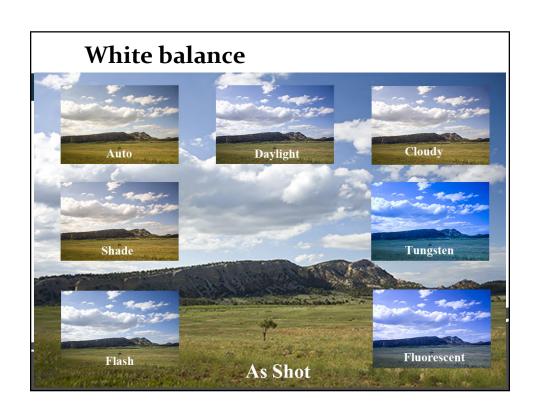
- What do you want in focus?
 - Want it all? → Increase the ISO or decrease the shutter speed which decreases the aperture
 - Want less? → Decrees the ISO or increase the shutter speed which increases the aperture
- With touch screen (phones) move the focus/light meter point
- Some SLRs have variable focusing points
- Point at the subject, push in the shutter halfway then move the camera to frame the scene while holding the shutter button then finally take the picture.



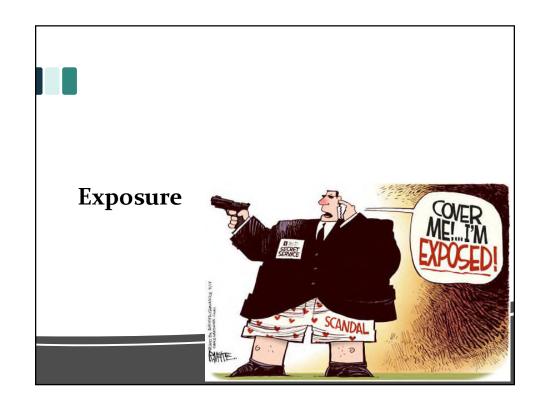


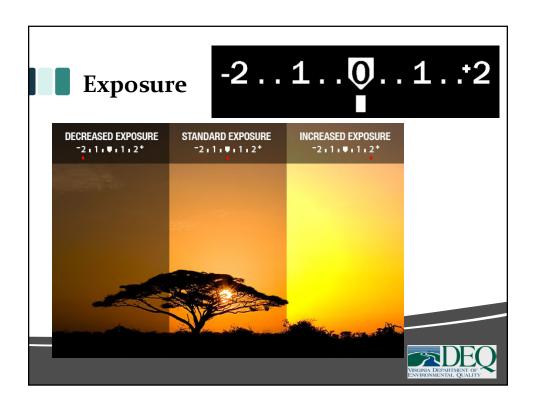




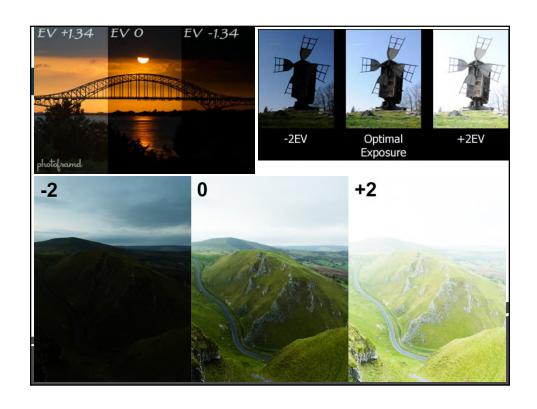


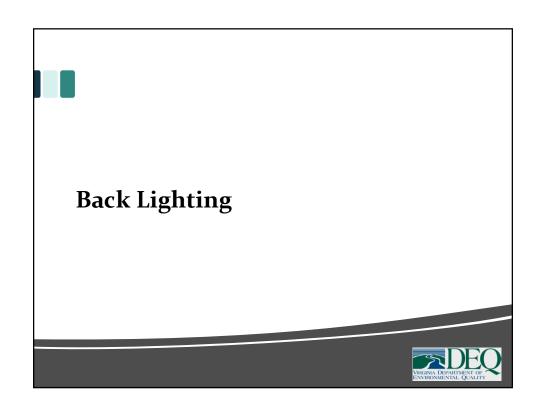




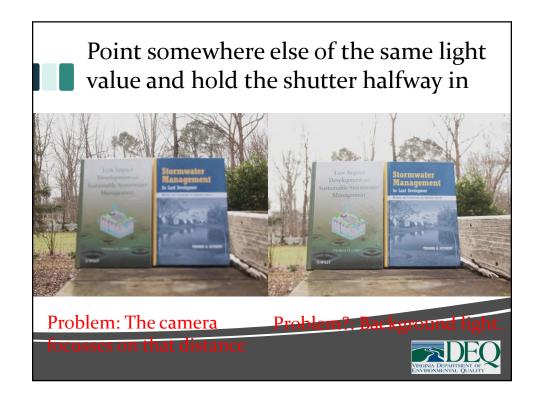












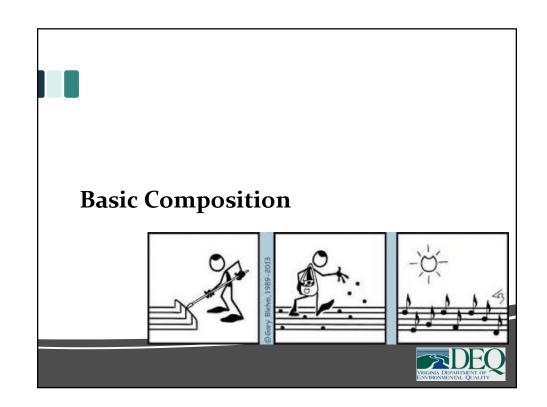


Use Reflectors



- Metal clipboard
- White sheet of paper
- Neutral color (white, grey or silver)
- Do not use your safety vest, unless you change the white balance, otherwise everything looks yellow.
- Do not focus a beam of light.







Basic Composition

- 1. Keep it simple
- 2. Keep the clutter out of the picture
- 3. Keep the subject matter off-center
- 4. Lead the eye to the subject matter
- 5. Use a diagonal line to lead the eye to the subject matter
- 6. Find framing devices
- 7 Don't be afraid to break the rules

http://www.digitalcameraworld.com/2012/04/12/10-rules-of-photo-composition-and-why-they-work/





Basic Composition (The rule of thirds)

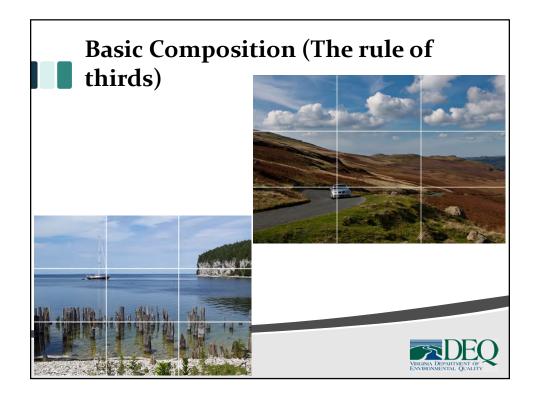


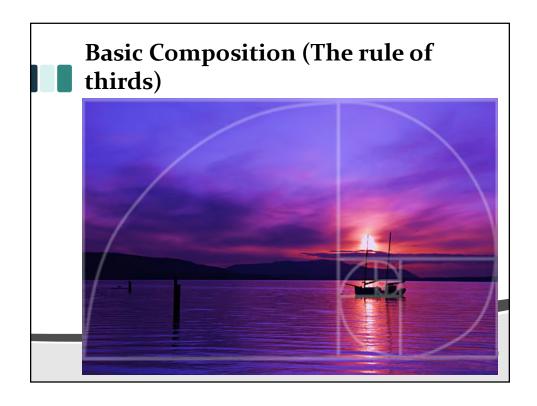


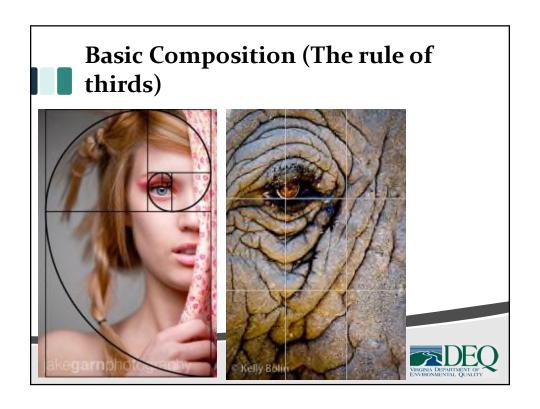


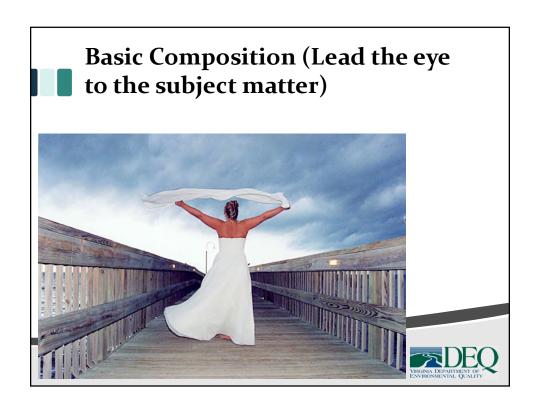










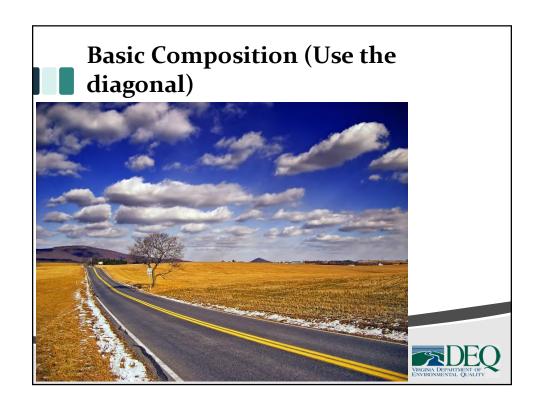


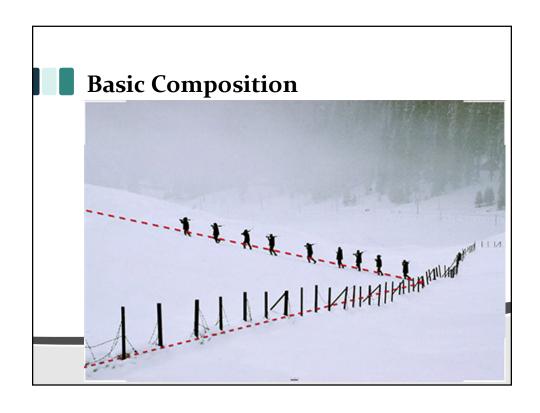


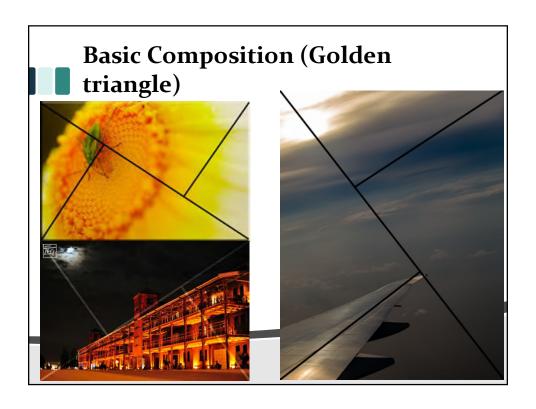


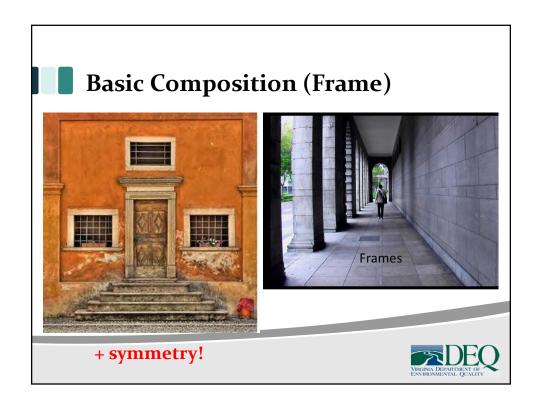
















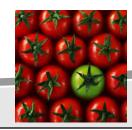




Just remember

- These are just some guidelines
- But the most boring is probably
 - To keep the horizon in the middle of the picture
 - Clutter
 - Subject in the center, unless fun or symmetric









End of Module 2

Questions?

